

## ABSTRACT

Heterocycle terminated dendritic polymers. More specifically, the production of 2-pyrrolidone, 2-piperidone, 2-aza-cycloheptanone or 2-azetidinone-terminated dendritic polymers obtained by reacting precursor primary amine,(e.g., -NH<sub>2</sub>)-terminated dendritic polymers with certain functionalized methacrylate reagents to produce new and novel dendritic polymers terminated with ester substituted 2-pyrrolidone, 2-piperidone, 2-aza-cycloheptanone or 2-azetidinone groups.